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ABSTRACT

A method and apparatus for controlling the temperature of a cold plate is disclosed. The temperature of the cold plate is controlled by directing compressed refrigerant along a first path configured to supply cooled refrigerant to the evaporator of the cold plate, redirecting at least a portion of the compressed refrigerant along a second path configured to supply non-cooled refrigerant to the evaporator of the cold plate, comparing a temperature reading associated with the cold plate to a predefined temperature range, and incrementally controlling the portion of the compressed refrigerant redirected along the second path responsive to the compared temperature reading. The temperature of the cold plate may be controlled to defrost the cold plate by redirecting substantially all of the compressed refrigerant along the second path for a predefined period of time responsive to a shutdown indicator.